

0115
FEB 18 2002
RECEIVED

COPY OF PAPERS
ORIGINALLY FILED

RECEIVED

FEB 27 2002

Technology Center 2600

Sheet 1 of 3

FORM PTO-1449 (REV. 6-89)		U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office		Attorney's Docket No. 20852-05682	Serial No. 09/918,886
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				Applicant Ting K. Yee et al.	
				Filing Date July 30, 2001	Group Art Unit 2633

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
DSK	A	4,061,577	12/6/77	Bell	250 398	499 76	8/18/76
DSK	B	4,701,904	10/20/87	Darcie	370 398	3 72	
DSK	C	4,953,156	8/28/90	Olshansky et al.	370 398	3 76	9/8/88
DSK	D	5,351,148	9/27/94	Maeda et al.	359 398	124 76	5/26/93
DSK	E	5,387,927	2/7/95	Look et al.	348 725	6 114	9/17/93
DSK	F	5,430,568	08/04/95 7	Little et al.	359 398	124 81	
DSK	G	5,546,190	8/13/96	Hill et al.	359 398	150 76	9/9/92
DSK	H	5,559,561	9/24/96	Wei	348	470	7/15/94
DSK	I	5,576,874	11/19/96	Czerwicz et al.	359 398	123 75	
DSK	J	5,596,436	1/21/97	Sargis et al.	359 398	132 76	7/14/95
DSK	K	5,680,238	10/21/97	Masuda	359 398	132 76	11/9/95
DSK	L	5,930,231	07/27/99	Miller et al.	370	210	

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
DSK	M	EP 0 717 521 A	06/19/96	EP				No
DSK	N	EP 0 756 393 A1	29.01.97	EP				No
DSK	O	GB 2179817 A	3/11/87	UK	H04B H03F	9/00 7/00		NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

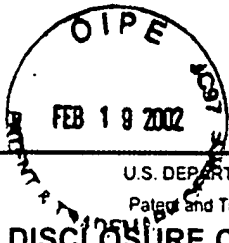
	P	Business Wire, "Harmonic Lightwaves Announces Availability of First MCNS Compliant QAM Modulator; TRANsend QAM is a Vital Component for Delivering Digital Services", November 18, 1997
DSK	Q	Corvaja, Roberto, et al., "Bit Error Rate Evaluation of Dual-Filter Heterodyne FSK Optical System," Journal of Optical Communications, December 1, 1994, Vol. 15, No. 6, Berlin, DE, Pages 208-213
	R	Cvijetic, M., "Coherent and Nonlinear Lightwave Communications," Artech House, Boston, MA 1996

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if references considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

PTO-1449
REV: 02/01

David S. Yee

22 JUNE 2005



RECEIVED

FEB 27 2002

Technology Center 2600

Sheet 2 of 3

FORM PTO-1449
(REV. 6-89)

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Attorney's Docket No.

20852-05682

Serial No.

09/918,886

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Applicant

Ting K. Yee et al.

Filing Date

July 30, 2001

Group Art Unit

2633

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Subclass	Translation
					Yes No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

DSK	S	Dai, H., C. Lin, M. Ramachandran, "Hybrid AM/QAM Video Trunking Lightwave Systems With Cascaded EDFAs", Conf. Proc. LEOS, 97 Annual Meeting, IEEE Lasers & Electro Optic Society, 1997, Vol. 1, pp. 319-320
	T	Douverne, E., M. Ottka, K. Ruthemann, K. Siegel, "Ein 64-QAM-Modem für SDH-Richtfunkgeräte mit integrierter Kreuzpolarisationsentkoppler", Vol. 40, No. 11, 1 March 1994, pages 89-100
DSK	U	Fong, Thomas K., et al., "Linewidth-Insensitive Coherent AM Analog Optical Links Using Semiconductor Lasers", IEEE Photonics Technology Letter, April 1, 1993, Vol. 5, No. 4, New York, Pages 469-471
	V	Fuse, M., Y. Kudo, K. Maeda, "Development of 128 Optical Distribution System of 150 chs AM/QAM Hybrid Signals", Electronics and Communications in Japan, November 1996, Volume 79, Issue 11, Part 1, pp. 65-77
	W	Green, P., "Fiber Optic Networks", 1993, Prentice-Hall, Inc., Englewood Cliffs, New Jersey, p. 331, line 4 line 7, figure 9-1
DSK	X	Hiramatsu, A. et al., "Hypermedia Photonic Information Network Based on WDM-SCM Broadcast and Select Switching," Conference Proceedings, Leos '96 9th Annual Meeting, IEEE Lasers and Electro-Optics Society 1996 Annual Meeting (Cat. No. 96CH35895), Boston, MA, November 18-19, 1996, pp. 312-313
DSK	Y	Ho, K., H. Dai, C. Lin, "Hybrid WDM Digital Trunking System for both HFC and FTTC Access Networks", Digest IEEE/LEOS 1996 Summer Topical Meetings (Cat. No. 96th 8164), NY, NY, pp. 37-38
DSK	Z	Kanno, N., K. Ito, "Fiber Optic Subcarrier Multiplexing Transport for Broadband Subscriber Distribution Network", IEEE Intl. Conference on Communications Boston ICC/89 World Prosperity Through Communications, June 11-14, 1989, Boston, MA; Volume 2, pp. 996-1003
DSK	AA	Kavehrad, M., E. Savov, "Fiber-Optic Transmission of Microwave 64-QAM Signals", IEEE Journal on Selected Areas in Communications, Vol. 8, No. 7, September 1990, pp. 1320-1326
	BB	LeBer, J., M. LeLigne, "Digital Transmission on Electric Subcarriers in Optical-Fiber Videocommunication Systems", Optics Communications, October 15, 1987, Volume 64, No. 2, pp. 120-126
	CC	Li, J., K. Yano, "Development of AM/QAM Hybrid Optical SCM Transmission System", Proc Intl Conf. On Communication Technology ICCT '96, May 5-7, 1996, Beijing, China, Volume 1, pp. 575-577
DSK	DD	Lu, X., G.E. Bodeep, T.E. Darcie, "Broad-Band AM-VSB/64 QAM Cable TV System Over Hybrid Fiber/Coax Network," IEEE Photonics Technology Letters, Vol. 7, No. 4, April 1995, pp. 330-332

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if references considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered.

Include copy of this form with next communication to applicant.

PTO-1449
REV: 02/01

David J. Kim

22 JUNE 2005

20852/05682/DOCS/1236394.1

RECEIVED

FEB 27 2002

Technology Center 2600

Sheet 3 of 3

FORM PTO-1449
(REV. 6-89)U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Attorney's Docket No.

20852-05682

Serial No.

09/918,886

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Applicant

Ting K. Yee et al.

Filing Date

July 30, 2001

Group Art Unit

2633

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate

FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Subclass	Translation
					Yes No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

DSK	EE	Nakamura, Y., H. Ohtsuka, S. Aikawa, H. Takanashi, "Advanced Techniques for Super Multi-Carrier Digital Microwave Radio With Trellis-Coded 256 QAM Modulation", NTT Radio Communication Systems Laboratories), pp. 389-394
DSK	FF	Nishikido, J. et al., "Multiwavelength Securely-Authenticated Broadcast Network" 11 th International Conference on Integrated Optics and Optical Fibre Communications, 23 rd European Conference on Optical Communications IOOC-ECOC 97. (Conf. Publ. No. 448), Sept. 22, 1997, pp. 17-20
DSK	GG	Ohtsuka, H., O. Kagami, S. Aikawa, H. Takanashi, "256-QAM Subcarrier Transmission for Broadband Distribution Networks", NTT Radio Communications Systems Laboratories, GlobeCom '91, pp. 1817-1822
DSK	HH	Park, J., A. Elrefaie, K. Lau, "1550-nm Transmission of Digitally Modulated 28-GHz Subcarriers Over 77 km of Nondispersion Shifted Fiber", <u>IEEE Photonics Technology Letters</u> , February 1997, Volume 9, Issue 2, pp. 256-258
DSK	II	Ryan, J., "WDM: North American Deployment Trends," <u>IEEE Communications Magazine</u> , February 1998, pp. 40-44.
	JJ	Ryu, S., "Coherent Lightwave Communication Systems," Artech House, Boston, MA 1995
DSK	KK	Sargis, Paul D., et al., "10-Gb/s Subcarrier Multiplexed Transmission Over 490 km of Ordinary Single-Mode Fiber Without Dispersion Compensation," <u>IEEE Photonics Technology Letters</u> , Vol. 9, No. 12, December 1997, pages 1658-1660.
DSK	LL	Schlump, Dieter et al.: "Electronic equalization of PMD and chromatic dispersion induced distortion after 100 km standard fibre at 10 Gbit/s" PROCEEDINGS OF THE EUROPEAN CONFERENCE ON OPTICAL COMMUNICATION, 20 September 1998, pp. 535-536.
	MM	Swaminathan, V., N. Froberg, L. Upadhyayula, "The end-to-end bit error performance of 64 quadrature amplitude modulated signals in a hybrid AM-vestigial sideband/QAM fiber-optic video transmission system", <u>Proceedings of SPIE International Society for Optical Engineering</u> , Volume 2917, pp. 274-282
DSK	NN	Tai, C., Pi-Yang Chiang, W. Way, "Eight-Way, 70-km Transmission of 33-Channel 64-QAM Signals Utilizing a 1.3- μ m External Modulation System and Semiconductor Optical Amplifier", <u>IEEE Photonics Technology Letters</u> , Vol. 8, No. 9, September 1996, pp. 1244-1248 1246-1248.
DSK	OO	Tang, D., "Multi-Gigabit Fiber-Optic Video Distribution Network Using BPSK Microwave Subcarriers", IEEE 1989 MTT-S Intl. Microwave Symp Digest, June 13-15, 1989, Long Beach, CA, Volume 2, pp. 697-701
DSK	PP	Wilson, G, "Capacity of QAM SCM systems utilising optically linearised Mach-Zehnder modulator as transmitter", <u>Electronic Letters</u> , Vol. 34, No. 25, December 10, 1998, pp. 2372-2374

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if references considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered.

Include copy of this form with next communication to applicant.

PTO-1449
REV. 02/01

22 JUNE 2005

20852/05682/DOCS/1236394.1



Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Complete if Known

Application No.	09/918,886
Filing Date	July 30, 2001
First Named Inventor	Ting K. Yee
Art Unit	2633
Examiner Name	Jason Chan
Attorney Docket Number	20852-05682

Sheet 1 of 1

RECEIVED

MAY 16 2003

U.S. PATENT DOCUMENTS

Technology Center 2600

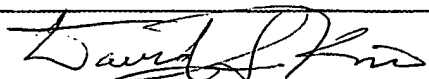
Examiner Initials*	Cite No. ¹	Document No. Number - Kind Code ² (if known)	Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
DSK	1	US-3,752,992 A	08-14-1973	Fluhr
DSK	2	US-5,724,169 A	03-03-1998	LaGasse
DSK	3	US-6,134,033 A	10-17-2000	Bergano et al.

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ - Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T ⁶
DSK	4	GB2179517 A	03-04-1987	STC PLC	
DSK	5	EP0328156 A1	08-16-1989	British Telecommunications	
DSK	6	EP0507508 A2	10-07-1992	American Telephone & Telegraph Company	

OTHER REFERENCES - NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ⁶
DSK	7	Campos, L.A. et al., "16-Gbit/s time- and polarization-division-multiplexed system using a novel compensation technique," <i>Optical Fiber Communication Conference Technical Digest Series</i> (Washington, DC 1994), Vol. 4, pages 14-15.	
DSK	8	Hill, P.M. et al., "Optical Polarization Division Multiplexing at 4 Gb/s," <i>IEEE Photonics Technology Letters</i> (May 1992), Vol. 4, No. 5, pages 500-502..	
DSK	9	Kawanishi, S. et al., "100 Gbit/s all-optical demultiplexing using four-wave mixing in a travelling wave laser diode amplifier," <i>Electronics Letters</i> (June 9, 1994), Vol. 30, No. 12, pages 981-982.	

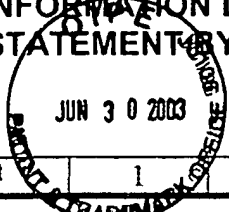
Examiner Signature		Date Considered	24 JUNE 2005
--------------------	---	-----------------	--------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609.
Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

20852/05682/DOCS/1346519.1

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT 		Application No.	09/918,886
		Filing Date	July 30, 2001
		First Named Inventor	Ting K. Yee
		Art Unit	2633
		Examiner Name	Jason Chan
Sheet 1 of 1	Attorney Docket Number	20852-05682	

U.S. PATENT DOCUMENTS				
Examiner Initials*	Cite No. ¹	Document No. Number - Kind Code ² (if known)	Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
DSK	1	US-5,162,937 A	11-10-1992	Heidemann et al.


FOREIGN PATENT DOCUMENTS				
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ - Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
DSK	2	EP0496298 A	07-29-1992	GTE Laboratories Inc.

OTHER REFERENCES - NON-PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ⁶
DSK	3	Invitation to Pay Additional Fees, Annex to Form PCT/ISA/206 Communication Relating to the Results of the Partial International Search, International Application No. PCT/US02/04582, June 16, 2003, 6 pages.	

RECEIVED

JUL 02 2003

Technology Center 2600

Examiner Signature		Date Considered	24 JUNE 2005
--------------------	---	-----------------	--------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609.

Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

20852/05682/DOCS/1359511.1



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO		Complete if Known			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application No.	09/918,886		
		Filing Date	July 30, 2001		
		First Named Inventor	Ting K. Yee		
		Art Unit	2633		
		Examiner Name	Jason Chan		
Sheet	1	of	1	Attorney Docket Number	20852-05682

U.S. PATENT DOCUMENTS				
Examiner Initials*	Cite No. ¹	Document No. Number - Kind Code ² (if known)	Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
DSK		US-6,058,227	05/02/2000	Wong
DSK		US-5,956,166	09/21/1999	Ogata, et al.
DSK		US-5,896,211	04/20/1999	Watanabe
DSK		US-5,272,556	12/21/1993	Faulkner, et al.
DSK		US-5,140,453	08/18/1992	Tsushima, et al.
DSK		US-4,807,227	02/21/1989	Fujiwara, et al.

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ - Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T ⁶

OTHER REFERENCES – NON-PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published			T ⁶
DSK		BACHUS, E.J., ET AL., Coherent Optical Multicarrier Systems; Journal of Lightwave Technology, Vol. 7, No. 2, February 1989, pp. 375-384			
DSK		GLANCE, B.S., ET AL.; WDM Coherent Optical Star Network; Journal of Lightwave Technology, Vol. 6, No. 1, January 1988, pp. 67-72			
DSK		TSUKAMOTO, K., ET AL., Coherent Fiber-Optic Microcellular Radio Communication System Using RF-to-optic Direct Conversion Scheme, IEEE Global Telecommunications Conference, 1995. GLOBECOM' 95, 13-17 November 1995: 1987-1991 Vol. 3			

20852/05682/DOCS/1484064.1

Examiner Signature		Date Considered	24 JUNE 2005
--------------------	--	-----------------	--------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609.

Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.